

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/587,539  
Source: IFWP  
Date Processed by STIC: 08/09/2006

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IFWP

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/587,539

DATE: 08/09/2006

TIME: 10:11:53

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\08092006\J587539.raw

3 <110> APPLICANT: Keiko ABE  
 4 Tomiko ASAKURA  
 5 Hiroyuki SORIMACHI  
 6 Tazuko UENOYAMA  
 7 Kenichiro NAKAJIMA  
 8 Katsuhiko KITAMOTO  
 9 Junichi MARUYAMA  
 10 Mikiya KISHI  
 12 <120> TITLE OF INVENTION: NOVEL TASTE-MODIFYING POLYPEPTIDE NAS, DNA THEREOF AND USE  
 THEREOF  
 14 <130> FILE REFERENCE: 1333.46425X00  
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/587,539  
 C--> 16 <141> CURRENT FILING DATE: 2006-07-28  
 16 <150> PRIOR APPLICATION NUMBER: JP2004-19251  
 17 <151> PRIOR FILING DATE: 2004-01-28  
 19 <160> NUMBER OF SEQ ID NOS: 18  
 21 <170> SOFTWARE: PatentIn version 3.1  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 591  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Curculigo latifolia  
 28 <400> SEQUENCE: 1  
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 31 ggcatggccg acagtgtcct gctctccggg caaaactctgt atgccggcca ctccctcacg 120  
 33 tcgggcagct atacctaaccataaaaaac aactgcaacc ttgtgaaata ccagcacggg 180  
 35 aggcagatct gggctagcga cactgacggg cagggctccc aatgccgcct cacattgcgg 240  
 37 agtgacggga acctcattat ctacgacgac aacaacatgg tcgtgtgggg gagcgactgc 300  
 39 tgggggaaca acggcacgta tgctttgtt cttcagcagg atggccttt tgtcatctat 360  
 41 ggccccgttt tgtggccct tggccttaat ggggccgca gtcttaatgg taaaatcaca 420  
 43 gttgctaagg attctactga accacaacat gaggatatta agatggtgat taataattaa 480  
 45 tcaagtgaga ggattgttat gagaataatg aggaaatgga agaccaatct catgtcggtg 540  
 47 tggcctatct cgacctgttt gcagtgcctt tgtaaaaata acacattgt t 591  
 50 <210> SEQ ID NO: 2  
 51 <211> LENGTH: 113  
 52 <212> TYPE: PRT  
 53 <213> ORGANISM: Curculigo latifolia  
 55 <400> SEQUENCE: 2  
 57 Asp Ser Val Leu Leu Ser Gly Gln Thr Leu Tyr Ala Gly His Ser Leu  
 58 1 5 10 15  
 61 Thr Ser Gly Ser Tyr Thr Leu Thr Ile Gln Asn Asn Cys Asn Leu Val  
 62 20 25 30  
 65 Lys Tyr Gln His Gly Arg Gln Ile Trp Ala Ser Asp Thr Asp Gly Gln  
 66 35 40 45  
 69 Gly Ser Gln Cys Arg Leu Thr Leu Arg Ser Asp Gly Asn Leu Ile Ile

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70	50	55	60
73	Tyr Asp Asp Asn Asn Met Val Val Trp Gly Ser Asp Cys Trp Gly Asn		
74	65	70	75
77	Gly Thr Tyr Ala Leu Val Leu Gln Gln Asp Gly Leu Phe Val Ile	80	
78	85	90	95
81	Tyr Gly Pro Val Leu Trp Pro Leu Gly Leu Asn Gly Cys Arg Ser Leu		
82	100	105	110
85	Asn		
89	<210> SEQ ID NO: 3		
90	<211> LENGTH: 158		
91	<212> TYPE: PRT		
92	<213> ORGANISM: Curculigo latifolia		
94	<400> SEQUENCE: 3		
96	Met Ala Ala Lys Phe Leu Leu Thr Ile Leu Val Thr Phe Ala Ala Val		
97	1	5	10
100	Ala Ser Leu Gly Met Ala Asp Ser Val Leu Leu Ser Gly Gln Thr Leu	15	
101	20	25	30
104	Tyr Ala Gly His Ser Leu Thr Ser Gly Ser Tyr Thr Leu Thr Ile Gln		
105	35	40	45
108	Asn Asn Cys Asn Leu Val Lys Tyr Gln His Gly Arg Gln Ile Trp Ala		
109	50	55	60
112	Ser Asp Thr Asp Gly Gln Gly Ser Gln Cys Arg Leu Thr Leu Arg Ser		
113	65	70	75
116	Asp Gly Asn Leu Ile Ile Tyr Asp Asp Asn Asn Met Val Val Trp Gly	80	
117	85	90	95
120	Ser Asp Cys Trp Gly Asn Asn Gly Thr Tyr Ala Leu Val Leu Gln Gln		
121	100	105	110
124	Asp Gly Leu Phe Val Ile Tyr Gly Pro Val Leu Trp Pro Leu Gly Leu		
125	115	120	125
128	Asn Gly Cys Arg Ser Leu Asn Gly Glu Ile Thr Val Ala Lys Asp Ser		
129	130	135	140
132	Thr Glu Pro Gln His Glu Asp Ile Lys Met Val Ile Asn Asn		
133	145	150	155
136	<210> SEQ ID NO: 4		
137	<211> LENGTH: 23		
138	<212> TYPE: DNA		
139	<213> ORGANISM: Artificial Sequence		
141	<220> FEATURE:		
142	<223> OTHER INFORMATION: primer NC1S		
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149	<211> LENGTH: 25		
150	<212> TYPE: DNA		
151	<213> ORGANISM: Artificial Sequence		
153	<220> FEATURE:		
154	<223> OTHER INFORMATION: primer NC1A		
156	<400> SEQUENCE: 5		
157	taatcaccat cttatatcc tcatg	25	

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Input Set : A:\Sequence Listing.txt

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160 <210> SEQ ID NO: 6  
 161 <211> LENGTH: 114  
 162 <212> TYPE: PRT  
 163 <213> ORGANISM: Curculigo latifolia  
 165 <400> SEQUENCE: 6  
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 168 1 5 10 15  
 171 Gln Ala Gly Ala Tyr Thr Leu Thr Ile Gln Asn Lys Cys Asn Leu Val  
 172 20 25 30  
 175 Lys Tyr Gln Asn Gly Arg Gln Ile Trp Ala Ser Asn Thr Asp Arg Arg  
 176 35 40 45  
 179 Gly Ser Gly Cys Arg Leu Thr Leu Leu Ser Asp Gly Asn Leu Val Ile  
 180 50 55 60  
 183 Tyr Asp His Asn Asn Asn Asp Val Trp Gly Ser Ala Cys Trp Gly Asp  
 184 65 70 75 80  
 187 Asn Gly Lys Tyr Ala Leu Val Leu Gln Lys Asp Gly Arg Phe Val Ile  
 188 85 90 95  
 191 Tyr Gly Pro Val Leu Trp Ser Leu Gly Pro Asn Gly Cys Arg Arg Val  
 192 100 105 110  
 195 Asn Gly  
 199 <210> SEQ ID NO: 7  
 200 <211> LENGTH: 52  
 201 <212> TYPE: DNA  
 202 <213> ORGANISM: Artificial Sequence  
 204 <220> FEATURE:  
 205 <223> OTHER INFORMATION: primer1  
 207 <400> SEQUENCE: 7  
 208 ggggacaact ttgtatagaa aagttgatgc atttcatggc gttttgatca tt 52  
 211 <210> SEQ ID NO: 8  
 212 <211> LENGTH: 49  
 213 <212> TYPE: DNA  
 214 <213> ORGANISM: Artificial Sequence  
 216 <220> FEATURE:  
 217 <223> OTHER INFORMATION: primer2  
 219 <400> SEQUENCE: 8  
 220 ggggactgct tttttgtaca aacctgtcga gctactacag atcttgcta 49  
 223 <210> SEQ ID NO: 9  
 224 <211> LENGTH: 64  
 225 <212> TYPE: DNA  
 226 <213> ORGANISM: Artificial Sequence  
 228 <220> FEATURE:  
 229 <223> OTHER INFORMATION: primer3  
 231 <400> SEQUENCE: 9  
 232 ggggacaagt ttgtacaaaa aagcaggctc taaacgtggg gggggggaca gtgtcctgct 60  
 234 ctcc 64  
 237 <210> SEQ ID NO: 10  
 238 <211> LENGTH: 50  
 239 <212> TYPE: DNA  
 240 <213> ORGANISM: Artificial Sequence

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TIME: 10:11:53

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242 <220> FEATURE:
243 <223> OTHER INFORMATION: primer4
245 <400> SEQUENCE: 10
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249 <210> SEQ ID NO: 11
250 <211> LENGTH: 65
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: primer5
257 <400> SEQUENCE: 11
258 ggggacaagt ttgtacaaaa aaggcaggctc taaacgtggg gggggggaca gtgtcctgct      60
260 ctccg      65
263 <210> SEQ ID NO: 12
264 <211> LENGTH: 50
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: primer6
271 <400> SEQUENCE: 12
272 ggggaccact ttgtacaaga aagctgggtt tatccaccat taacacggcg      50
275 <210> SEQ ID NO: 13
276 <211> LENGTH: 48
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: primer7
283 <400> SEQUENCE: 13
284 ggggacagct ttcttgtaca aagtgggtga tctgttagtag ctcgtgaa      48
287 <210> SEQ ID NO: 14
288 <211> LENGTH: 53
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence
292 <220> FEATURE:
293 <223> OTHER INFORMATION: primer8
295 <400> SEQUENCE: 14
296 ggggacaact ttgtataata aagttggatc ttggatataa aaatccaaat atg      53
299 <210> SEQ ID NO: 15
300 <211> LENGTH: 47
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial Sequence
304 <220> FEATURE:
305 <223> OTHER INFORMATION: primer9
307 <400> SEQUENCE: 15
308 ggggacagct ttcttgtaca aagtggatc tgttagtagct cgtgaag      47
311 <210> SEQ ID NO: 16
312 <211> LENGTH: 49
313 <212> TYPE: DNA
314 <213> ORGANISM: Artificial Sequence

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**PATENT APPLICATION:** US/10/587,539 **TIME:** 10:11:53

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\08092006\J587539.raw

316 <220> FEATURE:  
 317 <223> OTHER INFORMATION: primer10  
 319 <400> SEQUENCE: 16  
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 323 <210> SEQ ID NO: 17  
 324 <211> LENGTH: 477  
 325 <212> TYPE: DNA  
 326 <213> ORGANISM: Curculigo latifolia  
 328 <400> SEQUENCE: 17  
 329 atggcgcca agtttctt caccattttt gtcacccctt cggccgtcgc tagccttggc 60  
 331 atggccgaca atgtccgtct ctccggcaaa actctgcattt ccgaccactc tctccaggcg 120  
 333 ggcgcctata ccttaaccat aaaaaacaag tgcaacctgg taaaatacca gaacgggagg 180  
 335 cagatctggg ctagcaacac tgacaggcg ggctccggct gccgcctcac attgctgagt 240  
 337 gacgggaacc tcgttatcta cgaccacaac aacaacgacg tggggggag cgccctgtgg 300  
 339 ggggacaacg gcaagtatgc tcttggttt cagaaggatg gcagatttg catctatggc 360  
 341 ccgttttgtt ggtcccttgg ccctaattggg tgccgcgtg ttaatggtgg aatcacagtt 420  
 343 gctaaggatt ctactgaacc acaacatgag gatattaaga tggtgattaa taattaa 477  
 346 <210> SEQ ID NO: 18  
 347 <211> LENGTH: 3481  
 348 <212> TYPE: DNA  
 349 <213> ORGANISM: Aspergillus nidulans  
 351 <400> SEQUENCE: 18  
 352 gatctgttagt agctcgtaaa ggggtggagag tatatgtatgg tactgctatt caatctggca 60  
 354 ttggacagtgt agttttagtt tgatgtacag ttggagtcgt tactgctgtc atccccttat 120  
 356 actcttcgtat tgggggttccaa accctaaccgc caagcacgtt agtctattat agggaaaggat 180  
 358 cctcttagagt cgaccctgcg gcatgcaagg tggtcagctt ctcttggcaa tagctgcccg 240  
 360 tatgacagga agtccgtaag tacttccctt cccacacttc agtatacgtc ccagtatgg 300  
 362 gtggctgacg attcgagggc cggcatccct acgtcattag taaaattgg atactggat 360  
 364 tggctgttag ggcgcggagc cggagagctc agaagatata tccgggttga tcttctca 420  
 366 tatttttttcc agattttttt tactgtttcg tacattccctt gataattttt attttccctt 480  
 368 aatgacagaa atagatattt aacagaaaatg gtaatagtcc cggtgccggag aaatacaccg 540  
 370 cccccgcgca ctcgtatata caacagtcaa attcaggagc cacaacatat ctatgttcc 600  
 372 gtcactaaga tatggcgtcc gcttagcata ggagtaactg ttttgaagag ataaatgtcg 660  
 374 ccgatatata tacgtttacg caattggccca tgtgaagtca tgcagagtcg ttacttgaat 720  
 376 tcaaatttttcc tatagccctt ccaaggactc ttaaccgaag atcccgttctt tatctcgat 780  
 378 caaacaaagg aaataaatcg caaatctcta acgccccata ttatctacag acgtccaaag 840  
 380 tagccctcgcc tctcgagcat gaggatgatc tcatggacaa tggAACGAAC gctctgttg 900  
 382 gaaacgtcgaa ccacaagggtt gggttgggtt ggggctcggtt aggggtcatc gacaccgggt 960  
 384 aagcccttgc tttcacccgc gcccggcttgc gcttagatac cgcgttgcgtc agtggcctca 1020  
 386 cagtatttgcg ggggaggtttt gacgtgaacc aggaagaaag agccaccgggt gctctggaca 1080  
 388 gcttcacggg ccccttgcg ggagtgcgtt tagggagcaa tggggccggc gataacagcg 1140  
 390 gcacccggcgc gggtgagttt accggcgacg aaagcgatgc gctggacgtt ggtgtggcgg 1200  
 392 tcctcacgac tgaaggcccgat ctcagaggag agctcgatgc ggacagtgtc accaaggagg 1260  
 394 agtgtgacag agcgtccacc ctgtgggtt agagtgcacg ggagagcagc agcgatggcg 1320  
 396 tccttgcggg agttcatgtt accggtaagg aagatggtaa aaccctggag ggcgcgaggg 1380  
 398 gggcttagact cgcgcaggat ttgacaact tcggggtaag agaaccactc agggatgtga 1440  
 400 gcacccggtac ggagacgggtt acggagttca gttccggaga tggcggatgtt cttggcc 1500  
 402 gcagggaaacct cgtccttggg catgtactca tcgggtgcgg ggaggttaggt gacttgcgtgg 1560  
 404 aattcaacqa ctcqataacc qaqctcccq cqgtacttct cqaccqcgatq ctqacqcatcq 1620

**VERIFICATION SUMMARY**

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L:16 M:270 C: Current Application Number differs, Replaced Current Application No

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date